

Product Texts

PBT with Nickel Plated Carbon Fiber.

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	3720	MPa	ASTM D 638
Tensile Strength at Break	80	MPa	ASTM D 638
Elongation at Break	0.78	%	ASTM D 638
Flexural Modulus	8710	MPa	ASTM D 790
Flexural Strength	114	MPa	ASTM D 790
Izod Impact notched, 1/8 in	58.7	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	157	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
DTUL @ 264 psi	216	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Volume Resistivity	753	Ohm*cm	ASTM D 257
Other Standards^[S]			
Surface Resistivity	30	Ohm	ESD STM 11.11

S: These properties are reported by the producer according standards that are different to our defaults.

Other properties	Value	Unit	Test Standard
Density	1400	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	104	°C	-
Pre-drying - Time	6	h	-
Zone 1	243	°C	-
Zone 2	238	°C	-
Zone 3	232	°C	-
Nozzle temperature	243	°C	-
Screw speed	100	rpm	-
Injection speed	50.8	mm/s	-
Injection pressure	5.52	MPa	-
Back pressure	1.17	MPa	-

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Features

EMI Attenuation/Shielding

Applications

Automotive, Electrical and Electronical

Regional Availability

North America